Bhoj Reddy Engineering College for Women: Hyderabad

Faculty of Chemistry

Lesson plan of faculty member for the academic year 2019–20

Class: I B Tech Branch - Section: IT-A Semester: II
Subject: Environmental Science Lectures per week: 3

Lecture Number	Topics to be covered	Date (s)
UNIT-I Ecosystems		
1	Definition, classification, function	18 January 2020
2	Food chain, Food web	20 January 2020
3	Ecological pyramids, Flow of Energy	21 January 2020
4	Biogeochemical cycles, hydrological and gaseous cycles	25 January 2020
5	Biogeochemical cycles - sedimentary cycles	27 January 2020
6	Bio magnification, Bio accumulation, carrying capacity	28 January 2020
7	Ecosystem values, Services	01 February 2020
UNIT-II Natural ressources		
8	Classification, Water resources	03 February 2020
9	over utilization of surface and ground water	04 February 2020
10	Floods	08 February 2020
11	Droughts	10 February 2020
12	Dams – benefits & problems	11 February 2020
13	Mineral resources, use and exploitation,	15 February 2020
14	Environmental effects of extracting and using mineral resources	17 February 2020
15	Energy resources, growing energy needs	18 February 2020
16	Alternate energy source – case studies	22 February 2020
17	Renewable and non renewable energy sources	24 February 2020
18	Land resources & Forest resources	28 February 2020
UNIT- III Biodiversity and Biotic resources		
19	Introduction, Definition & classification of Biodiversity	29 February 2020
20	Values of Biodiversity, India as a mega diversity nation	02 March 2020
21	Threats to biodiversity- habitat loss, poaching of wild life, man wild life conflicts	03 March 2020
22	Conservation of bio-diversity- insitu and ex-situ	10 March 2020
23	National bio diversity act Hotspots of bio-diversity	14 March 2020
UNIT- IV Environmental pollution & control technologies		
24	Classification of pollution	16 March 2020
25	Air pollution – primary and secondary pollutants, automobile and Industrial pollution	17 March 2020
26	Ambient air quality standards, water pollution	21 March 2020
27	sources and types of pollution, drinking water standards	23 March 2020
28	Soil pollution: sources and types, impacts of modern agricultural, Degradation of soil	24 March 2020
29	Noise pollution: sources and health Hazards, standards	28 March 2020
30	Pollution control technologies Solid waste: municipal solid waste management, composition, Characteristics of e-Waste and its management	30 March 2020
31	Pollution control technologies wastewater Treatments Primary, Secondary and Tertiary	31 March 2020
32	Overview of air pollution control technologies,	04 April 2020
33	Concepts of bioremediation, Global environmental problems and global efforts	06 April 2020
34	Climate change and impacts on human environment, Ozone depletion, Ozone depleting substances (ODS)	07 April 2020

35	Deforestation and desertification, International convention/protocols ; Kyotoprotocol, Earth summit, Montreal protocol	11 April 2020
UNIT- V Environmental policy, legislation and EIA		
36	Environmental protection act, Protection act, legal aspects forest act, Air act-1981, water act	13 April 2020
37	Wild life Act, Municipal solid waste management and handling rules	18 April 2020
38	Hazardous waste management and handling rules, biomedical waste management and handling rules	20 April 2020
39	Impacts of air water biological and Socio economical aspects, Strategies for risk assessment, concepts of EMP	21 April 2020
40	Concept of Sustainable Development, Population and its explosion, Crazy consumerism	25 April 2020
41	Environmental Education Urban sprawl, Low carbon life style, Human health	27 April 2020
42	Ecological foot print Life Cycle assessments, penvironmental Ethics, Concept of Green Building	28 April 2020

Text books:

1. Environmental Studies by Erach Bharucha & R Rajagopalan.

Name and signature of the faculty: R Divya Bharathi

Name and signature of Head - Chemistry faculty: K Sandhya